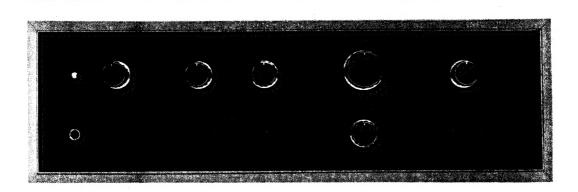
OPERATING INSTRUCTIONS & SERVICE MANUAL

AM/FM STEREO AMPLIFIER

SANSUI AU-6500



Sansui

SANSUI ELECTRIC CO., LTD.

We are grateful for your choice of the AU-6500 Integrated Amplifier.

For over a quarter of a century, Sansui has been building hi-fi audio equipment, and nothing else. Our mission is very old and at once ever new to us: to bring the reproduced sound closer and closer to the original.

The AU-6500 now in your hands is one answer from us to this never-ending quest. It is a product of the cream of sophisticated modern audio-electronics knowhow, coupled with our long experience, and as such, we present it to you with our full confidence.

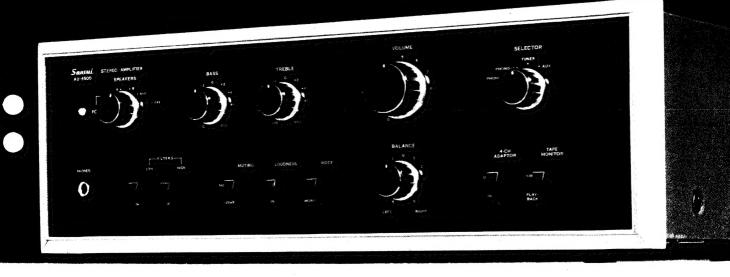
The AU-6500 is a new breed of Sansui's AU series integrated amplifiers. Its tone quality has been polished and perfected through an unprecedented number of listening tests in different acoustic environments. We feel certain that you will like it, but you will find this out as soon as you play your first record through it.

This manual has been prepared to guide you in operating and caring for the amplifier correctly, so that you will get the most out of its built-in high performance and exceptional versatility.

May we suggest that you read it once carefully?

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SWITCHES AND CONTROLS

Power Indicator -

Lights when you turn on the Power/Speakers Switch, and remains lit until you turn off the switch.

Power/Speakers Switch -

Controls both the power supply and selection of speaker systems.

POWER OFF: Cuts off power supply for the amplifier.

A: Turns on power supply and energizes the speaker systems connected to SYSTEM-A speaker terminals on the rear.

Because of the built-in amplifier/speaker protection circuit, sound will come out with a delay of a few seconds.

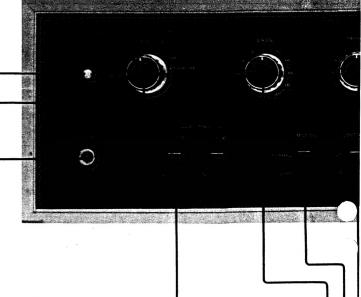
B: Energizes speaker systems connected to SYSTEM-B speaker terminals.

A+B: Energizes both A and B pairs of speaker systems.

SPKR OFF: Cuts off the sound from all speaker systems to permit private listening with headphones connected to the Headphone Jack.

Headphone Jack -

Plug stereo headphones into this jack for private listening or monitoring, but be sure to turn the Power/Speakers Switch to SPKR OFF first unless someone is listening to the sound from speaker systems in another room. The jack will accept any standard stereo phone plug, but for best tone quality, we recommend a dynamic type such as the Sansui SS-20 or SS-10.



Filters -

Low: Push down to IN to eliminate low-frequency noise such as the rumbling of your turntable motor. If no such noise is present, be sure to keep it off.

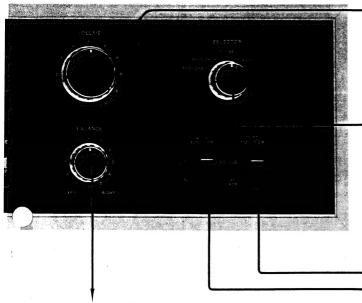
High: Push down to IN to eliminate high-frequency noise such as the surface noise from a worn record or as the fluorescent lamp noise mixed in radio broadcasts.

Tone Controls -

Let you tailor the tone quality of reproduced sound to your taste by adjusting the amplifier's frequency response curve. The Bass Control is for adjusting the loudness of bass notes as may be produced by a bass, and the Treble one for adjusting that of treble notes as may be produced by cymbals.

Muting Switch —

Reduces the sound volume by 20dB at once without the use of the Volume Control. Most convenient to lower the sound volume temporarily when the telephone rings, to avoid the noise of the pickup stylus descending on a record, etc.



Balance Control

Push down the Mode Switch to MONO once and adjust this control for equal sound volume from the left and right speaker systems, then return the switch to STEREO. If there is a large difference in the sound volumes from the two speaker systems even with this control set near the center, it may be because the left and right output signal levels from the program source component (turntable, tuner, tape deck, etc.) are different. Check the component once.

Mode Switch

The STEREO position is normal. If you connect a monophonic signal to either left or right input terminal, it is heard from both speaker systems by pushing down to MONO.

Loudness Switch

If desired, push down to IN to emphasize the highs and lows when listening at low volume levels. This is because the mechanism of human hearing is such that the high and low notes seem greatly enfeebled at low listening levels.

Volume Control

Selector Control

Turn to an appropriate position to hear the desired program source.

PHONO-2, PHONO-1: To play records on a turntable connected to the PHONO 2 or 1 terminals on the rear.

TUNER: To hear a radio broadcast from a tuner connected to the TUNER terminals on the rear.

AUX: To reproduce whatever program source is connected to the AUX terminals on the rear. (Connect a turntable with a crystal or ceramic cartridge, the audio outputs of a television, the playback outputs of a tape recorder, etc. to the AUX terminals.)

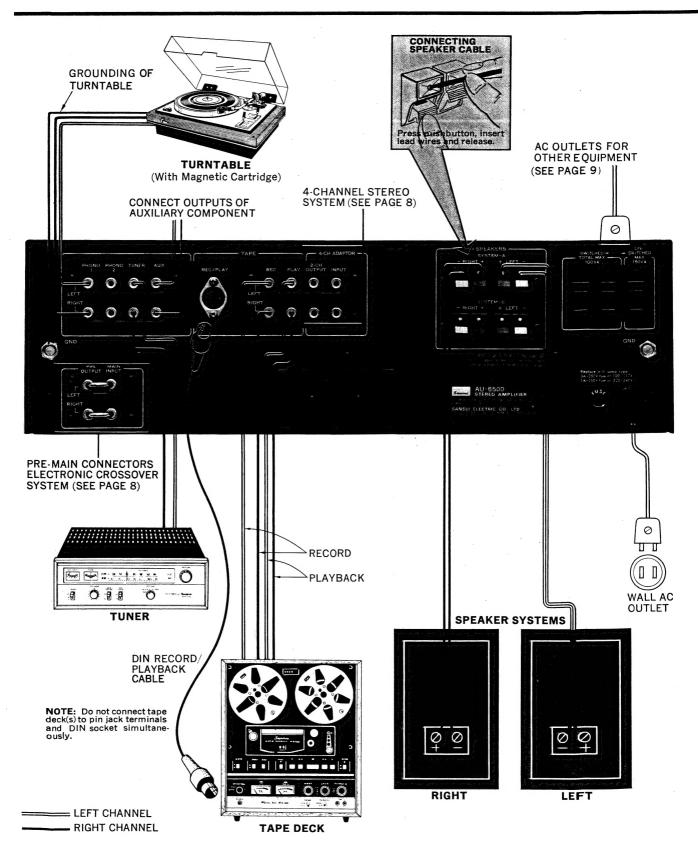
Tape Monitor Switch

Push down to PLAYBACK to reproduce a recorded tape or monitor a recording as you make it on a tape deck connected to the amplifier (monitoring is possible only if the tape deck is equipped with separate recording and playback heads). Otherwise, be sure to keep it at SOURCE.

4-Channel Adaptor Switch

If you connect a 4-channel adaptor to the AU-6500 and make other necessary connections, you can upgrade this 2-channel stereo amplifier to hear 4-channel stereo sound by pushing this switch down to IN. (refer to page 8). Otherwise, be sure to keep it off.

SETTING UP YOUR AU-6500/OPERATING PROCEDURE



Connecting Speaker Systems

If you are connecting only one pair of speaker systems to the AU-6500, they may have any impedance from 4 to 16 ohms. Connect them to the SYSTEM-A or -B terminals on the rear, making sure not to confuse the left and right cables, plus and minus leads on the amplifier and speaker ends. But if you wish to connect two pairs of speaker systems and drive them simultaneously by turning the Power/Speakers Switch to A+B, each speaker system should have impedance of 8 to 16 ohms. Using a system with lower impedance could result in a breakdown of the amplifier.

Connecting a Turntable

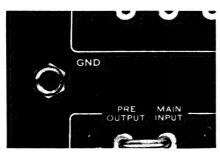
Connect it to the PHONO 1 or 2 terminals on the rear. Fot best results, use a turntable with a magnetic pickup cartridge.

Connecting a Tuner

Connect the output terminals of a tuner to the TUNER input terminals on the amplifier's rear panel.

Connecting Grounding

Be sure to connect the grounding terminal (or lead) of the turntable and tuner to the grounding terminal of the amplifier. It may suppress the hum noise which may otherwise occur.



Operating Procedure

- **1.** Set the Selector Control to the desired program source.
- **2.** Set the 4-Channel Adaptor Switch to OUT and the Tape Monitor Switch to SOURCE, unless you want to use them.
- **3.** Set the Power/Speakers Switch to as required.
- **4.** Start the program source component and play the program source.
- **5.** Use the amplifier's other controls and switches to suit your taste or room acoustics.

Note: To play a monophonic record on a stereo turntable, follow the same procedure as for playing a stereo record. Better results are normally obtained.

RECORDING AND PLAYBACK BY TAPE DECKS

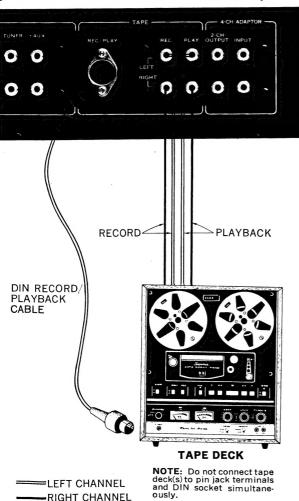
Connecting a Tape Deck

Connect the input terminals of a tape deck to TAPE REC terminals of the amplifier, and its output terminals to the PLAY terminals.

The DIN socket can be used only if your tape deck is equipped with a similar socket. It is manufactured according to the German industrial standard to permit tape recording and playback from a single cable with a special 5-pin plug on each end.

Should you wish to connect more than two tape decks, you may connect it to the 4-CH ADAPTOR terminals. The 2-CH OUTPUT terminals have the same electrical function as the REC terminals, while the INPUT terminals are equivalent to the PLAY terminals.

Note: Do not connect the tape deck(s) to the pin jack terminals and DIN socket simultaneously.



Recording & Playback Procedure Recording

- **1.** Set the Selector Control to the program source you wish to record.
- **2.** Adjust the recording volume control of the tape deck to preset the recording level.
- 3. Start the tape deck in the recording mode.
- **4.** To monitor the recording as you make it, push down the Tape Monitor Switch to PLAYBACK. Be sure to set the monitor switch of the tape deck to the playback mode as well.

Playback

- 1. Set the Tape Monitor Switch to PLAYBACK.
- 2. Start the tape deck in the playback mode.
- **3.** Use the amplifier's other switches and controls to suit your taste or room acoustics.

Procedure for Copying a Recorded Tape

- ♦ If you want to copy a recorded tape, connect one tape deck for playback to the TAPE terminals, the other for recording to the 4-CH ADAPTOR terminals
- ♦ By operating the 4-Channel Adaptor Switch, you can monitor the recording as you copy it from one tape deck to the other. To monitor the recording before it is copied, keep the 4-Channel Adaptor Switch at OUT. To monitor the recording after it is copied, push down to IN.

Notes about Recording

- 1. Monitoring of recorded sound is possible only if the recording tape deck is equipped with separate heads for recording and playback. Otherwise, set the Tape Monitor Switch to SOURCE and listen to the original input sound before it is recorded.
- **2.** The various switches and controls on the AU-6500 do not affect the sound recorded into the tape deck. They only adjust the sound from the speaker systems or headphones.

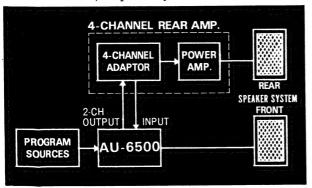
UPGRADING YOUR STEREO

4-Channel Stereo System

The sound we hear daily is a mixture of the sound that reaches our ears straight from the sound source—be it a musical instrument, a jet, a man's mouth or what have you—and the 'indirect sounds' that arrive at our ears only after they are reflected off various surfaces, such as the walls, ceiling and so forth. Four-channel recordings are made using two microphones in the front of the concert hall and two in the rear (to simplify the explanation). The 'indirect sounds' with their complicated waveforms are mainly picked up by the two microphones in the rear, and reproduced out of the two rear speakers in a 4-channel stereo set-up for greatly enhanced 'ambience' effects. The effect is almost as if the original live performance were re-played right in your own room.

This new approach can now be yours simply by adding certain equipment—mainly, a Sansui 4-channel rear amplifier with its unique QS (RM) synthesizer decoder matrix (patents pending), and a second pair of speaker systems—to your 2-channel stereo system. Connection of such a rear amplifier or 4-channel adaptor is easy. Just connect the 4-CH ADAPTOR 2-CH OUTPUT terminals of the AU-6500 with the input terminals of such rear amplifier or 4-channel adaptor, then connect its 4-CH ADAPTOR INPUT terminals with the output terminals of such unit.

To operate the rear amplifier or 4-channel adaptor so connected, push the 4-Channel Adaptor Switch on the amplifier's front panel, and otherwise follow its manufacturer's instructions. Electrically, the 4-CH ADAPTOR 2-CH OUTPUT and INPUT terminals possess the some functions as the TAPE REC and MON terminals, respectively.



Electronic Crossover system

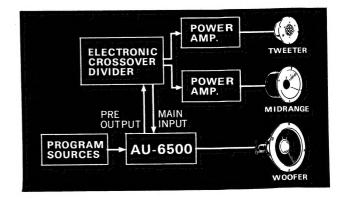
The electronic crossover system affords these advantages:

- 1. It enables the tweeters, midranges and woofers to be driven by separate power amplifiers. So you can make optimum use of speakers of different impedances and efficiencies, as well as power amplifiers of different output capacities and tone qualities.
- 2. It eliminates the need for the conventional LC type crossover network. With the electronic crossover divider, the amplifier's damping factor is no longer affected and you can set crossover frequencies as you like.

Electronic Crossover System Using the AU-6500

The preamplifier and power amplifier sections of the AU-6500 can be disconnected for independent usage, the latter section being available for driving a separate speaker in an electronic crossover system. To build such a system, you will need two- or three-way speaker systems and an electronic crossover divider, along with at least one or two additional power amplifiers.

Connection is not all that difficult. First remove the Pre-Main Connectors uniting the amplifier's pre-amplifier outputs and main (power) amplifier inputs. Then just connect the PRE OUTPUT to the input terminals of the electronic crossover divider, which divides the input signals into high, medium and low range(s). Finally, couple the separate output terminals of the electronic crossover divider to the amplifier's MAIN INPUT and the additional power amplifier(s), feeding their outputs separately into individual speakers, as illustrated below.

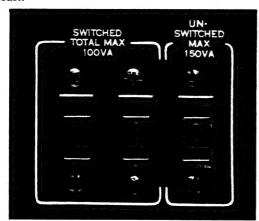


SIMPLE MAINTENANCE HINTS / ACCESSORY LIST

Rear-Panel AC Outlets

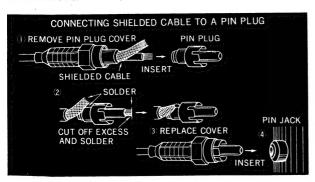
Of the three AC outlets provided on the rear panel, the ones marked 'SWITCHED' are controlled by the front-panel Power/Speakers Switch. The third one, marked 'UNSWITCHED,' is always 'live' and independent of the Power/Speakers Switch. The voltage delivered at these AC outlets is the same as the power supply voltage used.

The two 'SWITCHED' outlets have a total power capacity of 100 VA, while the UNSWITCHED one 150VA. Before you connect any appliance to them, be sure that it is adjusted for use at the same power supply voltage, and that its power consumption is not beyond these figures. Otherwise, serious danger could result.



Make Proper Connections

Connect the loadwires of speaker cables properly. If they are loose or touch other parts, the amplifier may produce noise and eventually break down. Also, before connecting a turntable, tuner and/or tape deck, be sure to read their manufacturers' instructions.



Speaker Impedance

Do not ever connect two pairs of speaker systems with impedance of less than 8 ohms each. Doing so will reduce the composite speaker impedance in each channel to less than 4 ohms, and may cause the quick-acting fuses to blow or result in a more serious breakdowns over a long period of time.

Phasing of Speakers

Listen to any monophonic reproduction. If the speaker systems are correctly phased, the sound will seem to come from a point midway between the left and right speaker systems. If the sound is not directly in front of you, however, the speaker systems are out of phase. If you notice this condition, check the speaker connections once. To correct the condition, switch the amplifier off and reverse the connection of plus and minus leadwires of one speaker cable. Also, be careful not to connect a single speaker system between the SYSTEM-A and SYSTEM-B terminals by mistake.

Howling and Hum

Take care never to place a turntable on or too near a speaker system, or the vibration produced by the speaker system is transmitted and causes an oscillating phenomenon called howling. It is best to keep these components completely separated, but if this is impossible, place a thick cushion between them. Humming, in contrast, is a phenomenon caused by incomplete or incorrect turntable-amplifier connections. Should this occcur, check to see if all connections are completely made and if the connecting cables are sufficiently thick. Hum noise may sometimes be eliminated by connecting the grounding lead of the turntable to the GND terminal on the amplifier's rear.

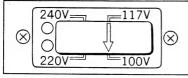
Voltage Adjustment

Your AU-6500 is adjusted to operate at the correct power supply voltage of your area prior to shipment from our factory. If you move after purchasing it or send it as a gift to a friend living in an area where the voltage is different, it may be necessary to adjust its Voltage Selector. To adjust it, remove the two screws securing the name plate on the rear, then set the arrow mark on the Voltage Selector Plug to the correct voltage indication (100, 117, 220, or 240 volts).

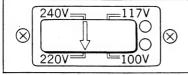
Also, it may by necessary to replace the power fuse as will whenever the voltage has changed. For operation at 100—117 volts, use a 3-ampere fuse. For operation at 220—240 volts, use a 2-ampere one.



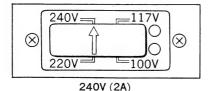
117V (POWER FUSE 3A)



100V (3A)



220V (2A)



Heat Radiated inside the Amplifier

The bonnet of the AU-6500 is designed so that any heat radiated inside will effectively escape through it. Proper care should therefore be taken of the dissipation of such heat if you wish to place something on top of the amplifier or place it inside a closed box, etc. Above all, avoid placing it where it may be exposed to the direct sunlight.

It is prohibited, however, to remove the amplifier's bonnet or bottom plate to improve the ventilation.

Accessory List

1.	OPERATING INSTRUCTIONS AND	
	SERVICE MANUAL	1
2.	OPERATING INSTRUCTIONS SHEET	1
3.	PIN PLUGS	4
4.	BUTTERFLY BOLTS	2
5.	WASHERS	2
6.	POLISHING CLOTH	1
7.	QUICK-ACTING FUSES (3A)	2

QUICK CHECK LIST OF SIMPLE MISTAKES

Some of the troubles which seem to result from a malfunction of the amplifier are caused by wrong operation and the negligence of simple maintenance, and can be quickly corrected by making a simple investigation and providing simple cures. To make sure you haven't made any of these mistakes, go over the following check list once.

Connections

- **1.** Have you connected the power cord to a wall AC outlet?
- **2.** Are the connecting cables for the turntable and tape deck not loose?
- **3.** Are the speaker cables not loose from amplifier's jacks or the speaker systems?
- **4.** Do your speaker systems have impedance of 8 ohms more? (They must, if you want to drive two pairs at one time.)
- **5.** Have the power fuse or quick-acting fuses not blown?

Operating Procedure

- **1.** Have you turned on the Power/Speakers Switch?
- **2.** Is the Tape Monitor Switch not set to PLAY-BACK position, though you don't want to reproduce a tape?
- **3.** Is the Selector Control set to the correct position?
- **4.** Is the Power/Speakers Switch set to the correct position?
- **5.** Is the 4-Channel Adaptor Switch not pushed down, though you are not using a 4-channel rear amplifier or adaptor?

If, even after these examinations, the amplifier does not return to normal, it may be faulty. Contact the Sansui dealer from whom you purchased the amplifier or your nearest Sansui Authorized Service Station. Do not attempt opening the bonnet for yourself. Such repair must be left to a qualified serviceman.

Should the Power Fuse Blow

If no Power Indicator should glow and the amplifier simply remains dead even after you have turned on its power fuse has blown. If this happens, disconnect the power cord from the wall AC outlet at once and examine the power fuse on the rear panel. If you find it blown, replace it with a new glasstubed fuse of the rated capacity (3-ampere for 100 to 117 volts, 2-ampere for 220 to 240 volts). Never use a fuse of a different capacity or a piece of wire, even as a stop-gap measure, or serious danger could result.



Quick-Acting Fuses

The AU-6500 is doubly protected with a relayequipped protection circuit and four quick-acting fuses. If no sound or distorted sound is heard from either or both speaker systems, switch off the amplifier, disconnect the power cord from the wall AC outlet, remove the cover on the rear panel concealing the quick-acting fuses and examine them. If you find any of them blown, find and eliminate the cause of the blowout, then replace it with a new glass-tubed quick-acting fuse supplied.

If the relay-equipped protection circuit ever goes to work, the sound may come out intermittently. If it happens, check the connections of various equipment and your operating procedure once.



SPECIFICATIONS

POWER OUTPUT

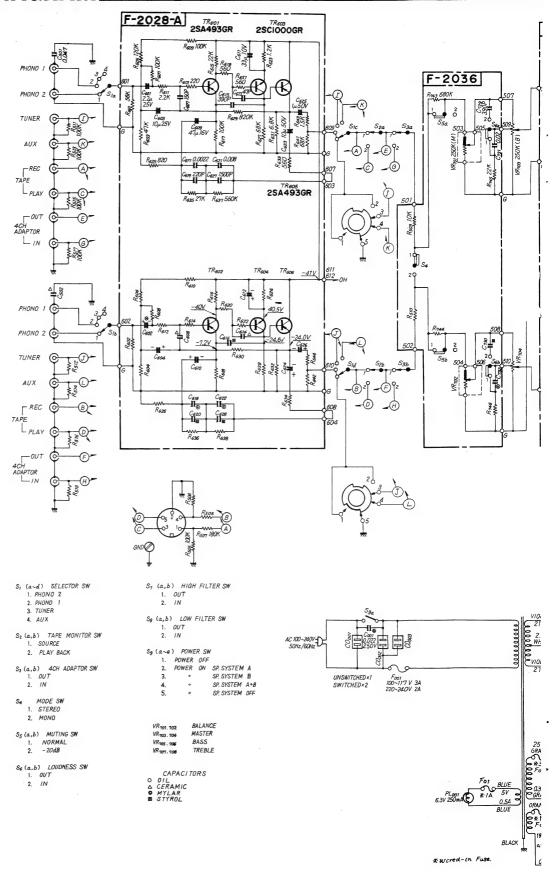
MAIN INPUT:

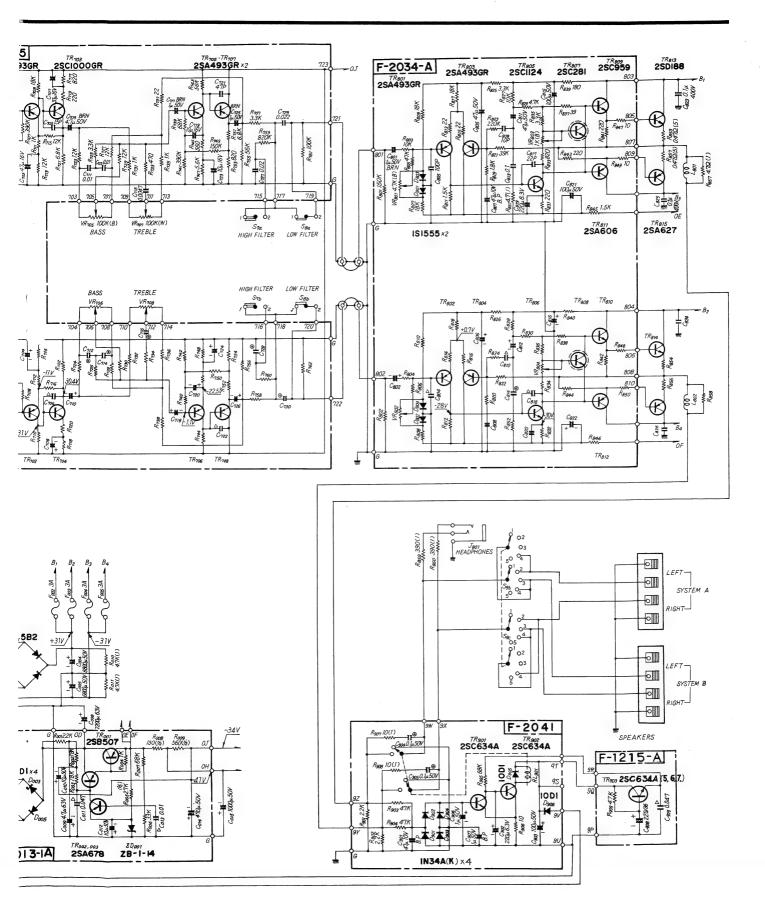
IHF MUSIC POWER: 94W (4 Ω) at 1,000Hz CONTINUOUS RMS POWER 32/32W (8Ω) at 1,000Hz (each channel driven): CONTINUOUS RMS POWER $30 + 30W (8\Omega)$ at 1,000Hz (both channels driven): TOTAL HARMONIC DISTORTION: less than 0.1% at rated output INTERMODULATION DISTORTION (70Hz:7,000Hz =4:1 SMPTE method): less than 0.1% at rated output IHF POWER BANDWIDTH (each channel driven at 8Ω): 5 to 40,000Hz FREQUENCY RESPONSE (at 1 Watt power outpnt) PHONO-1 and 2: RIAA equalization curve $\pm 0.5 dB (30 to 15,000 Hz)$ AUX: 10 to 30,000Hz ± 1.0 dB MAIN INPUT: 10 to 40,000Hz ± 1.0 dB LOAD IMPEDANCE: 4 to 16Ω DAMPING FACTOR: approximately 40 at 8Ω load INPUT SENSITIVITY AND IMPEDANCE (at 1,000Hz) PHONO-1: $2.5 \text{mV} (50 \text{k}\Omega)$ PHONO-2: $2.5 \text{mV} (50 \text{k}\Omega)$ (Maximum input capability 300mV THD: less than 0.5%) 100mV (50k Ω) TUNER: AUX: $100 \text{mV} (50 \text{k}\Omega)$ $100 \text{mV} (50 \text{k}\Omega)$ TAPE PLAY (Pin): TAPE REC/PLAY (DID): 100mV (50k Ω) 4-CH ADAPTOR: 100mV $(50k\Omega)$ MAIN INPUT: 800mV $(40k\Omega)$ OUTPUT VOLTAGE(at 1,000Hz) TAPE REC (Pin): 100mV TAPE REC/PLAY (DIN): 30mV 4-CH ADAPTOR: 100mV PRE OUTPUT: 0.8V (THD: less than 0.08%) (Maximum Output Voltage 4.0V THD: less than 0.5%) CROSSTALK (at rated output, 1,000Hz): PHONO-1: better than 50dB better than 50dB PHONO-2: TUNER: better than 50dB AUX: better than 50dB better than 50dB MAIN INPUT: IHF HUM AND NOISE better than 70dB PHONO-1: better than 70dB PHONO-2: better than 80dB TUNER: AUX: better than 80dB

better than 100dB

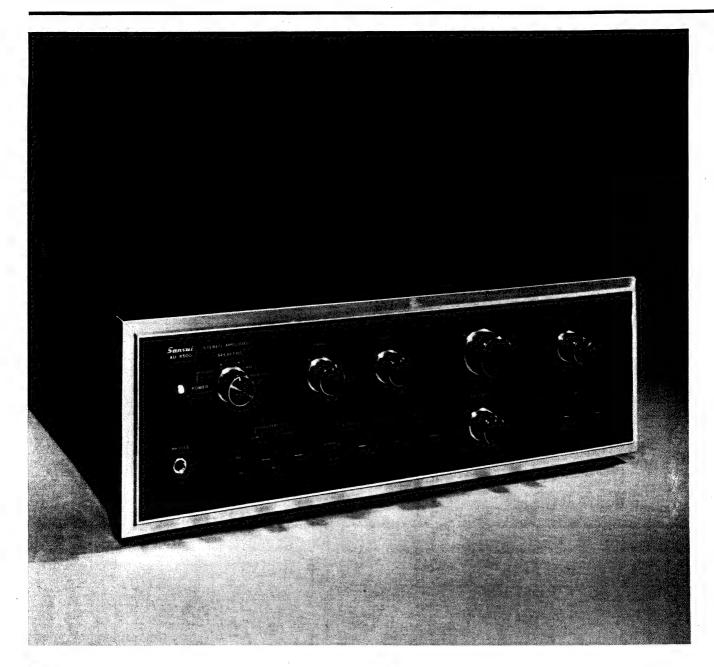
SWITCHES & CONTROLS +15dB, -15dB at 50HzBASS: +15 dB, -15 dB at 15,000 HzTREBLE: $+\,\mathrm{10dB}$ at 50Hz, $+\,\mathrm{8dB}$ at LOUDNESS: 10,000Hz volume control at -30dB) -12dB at 50Hz (6dB/oct) LOW FILTER: -12dB at 10,000Hz (6dB/oct) HIGH FILTER: transistors; 35 diodes; 6 SEMICONDUCTOR: 100, 117, 220, 240V 50/60Hz POWER REQUIREMENTS: POWER CONSUMPTION MAXIMUM: 125VA 65W RATED: **DIMENSIONS:** 140mm (5 \%") H 440mm (173/8") W 322mm (1211/6") D 11.5kg (25.3 lbs) WEIGHT:

SCHEMATIC DIAGRAM





NOTES TO SERVICE ENGINEERS



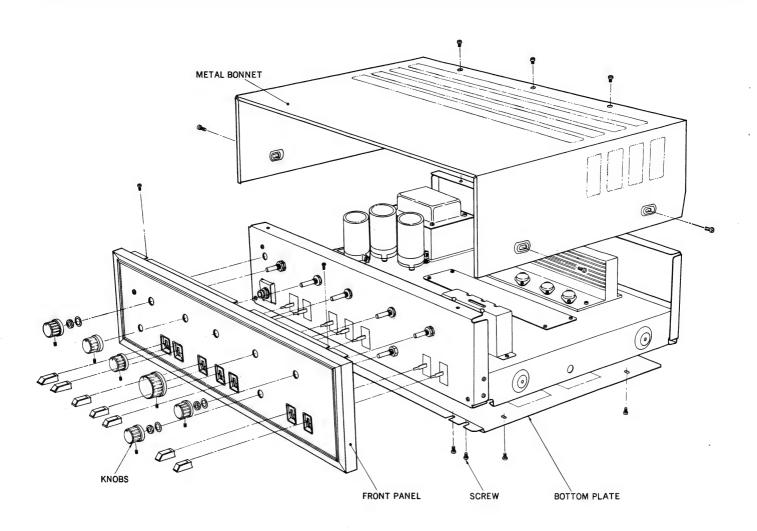
Please contact the nearest Sansui Authorized Service Station for replacement parts. When ordering them, look up the part lists on pages 19 to 26 and let us know (1) the amplifier's model number, (2) name of the printed circuit board, (3) part No., (4) name of the part, and (5) its stock No. Using nonstandard parts for temporary relief often impairs the sound quality and over-all reliability of the amplifier. Please take the trouble to contact your nearest Sansui Authorized Service Station.

Consult pages 17 to 26 when making repairs or adjustments. To check or measure the amplifier performance, connect load resistance of 4 to 16 ohms to the amplifier's speaker output terminals first. To check the electrical output characteristics, do not remove the bonnet and bottom plate.

GENERAL TROUBLESHOOTING CHART

PROGRAM SOURCE	SYMPTOM	PROBABLE CAUSE	WHAT TO DO
Tuner.	* Noise during AM reception.	* Interference by adjacent stations (called beat interference).	* Peculiar to AM waves, and unavoidable to some extent.
		* TV set is being used simultaneously.	* Move TV set away from tuner and amplifier.
	* Noise heard at certain hours, in certain areas or over part of dial during AM reception.	* Interference by nearby electrical appliances.	 * Attach noise limiter to appliance producing noise. * In some cases, can be eliminated by reversing power cord plug-AC outlet connections.
	* Pop noise during FM reception.	* Ignition noise from nearby automobile, motorcycle, etc.	* Adjust antenna location and height for maximum sensitivity. * Keep antenna away from streets.
		be entirely eliminated.	uency noise during radio reception cannot Try turning on amplifier's High Filter Control counterclockwise
Turntable.	* Hum noise.	 * Unshielded cables used to connect turntable. * Minus (ground) wire of connecting cable is not connected completely. * Turntable motor or tonearm is not grounded. 	 * Use regular shielded cables. * Examine connecting cables, especially their plugs. * Connect grounding lead of turntable to amplifier's GND terminal.
	* Loud oscillating noise.	* Turntable is placed on top of or too close to speaker systems.	* Place thick cushion between turntable and speaker systems. * Change location of turntable and speaker systems. * If using microphone(s), move or direct them away from speaker systems
	* Sound is shaky.	* Dust on record or pickup stylus. * Worn pickup stylus. * Improper stylus pressure.	* Clean record and pickup stylus. * Replace pickup stylus. * Adjust stylus pressure.
Tape Deck.	* Hiss noise.	* Magnetic heads are magnetized.	* Demagnetize heads. * Turn on High Filter Switch. * Connect noise reduction adaptor.
	* Sound is not clear.	* Dust on magnetic heads. * Tape is not pressed tight to heads.	* Clean heads. * Align tape transport mechanism.
General.	* When left and right channel sound volumes are balanced with amplifier's Balance Control, it does not come to center position.	* Left and right channel signal strengths vary with program source. * Left and right speaker systems have different efficiencies.	* Never mind. Optimum stereo effect is obtained by adjusting Balance Control so that sound comes from midway point between two speaker systems with Mode Switch set to MONO.
	* Musical instruments and singer not located clearly.	* Left-right, plus-minus con- nections of speaker systems, input cables are wrong.	* Examine connections once.
	* Want to listen at very low volume level at night.	* Fine adjustment of very low volume cannot be done with Volume Control.	* Turn on Muting Switch, then adjust Volume Control.

DISASSEMBLY PROCEDURE



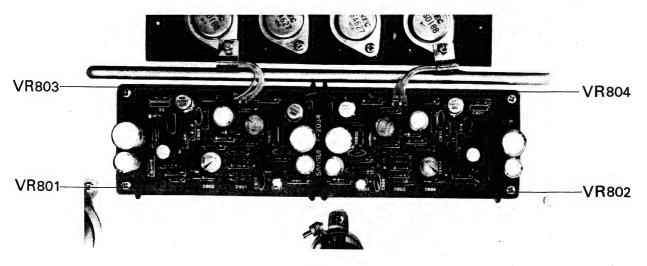
ALIGNMENT

Output of Power Amplifier Section

STEP	CONNECT/ADJUST	REMARKS
1.	Connect load resistance (8 to 16 ohms) to left (right) channel SYSTEM-A speaker terminal.	
2.	Connect voltmeter in parallel with load resistance.	Set voltmeter to 0.5V~3V range.
3.	Turn Power/Speakers Swith to SYSTEM-A.	
4.	Adjust VR ₈₀₁ (VR ₈₀₂) so that voltmeter indicates 0±50mA. Repeat above procedure for right channel (notations in parentheses are for right channel).	

Current Alignment of Power Amplifier Section

STEP	AMMETER (TESTER)	CONNECT/ADJUST	REMARKS
1. 2.		Remove F ₀₀₂ and F ₀₀₃ . Turn VR ₈₀₃ and VR ₈₀₄ fully counterclockwise.	Use ammeter with 100mA or 50mA
3.		Turn Power/Speakers Switch to SPKR OFF.	range.
4.	Set to 100mA range.	Connect ammeter where F_{002} was. (Connect (21) on schematic to minus terminal of ammeter, other end to plus terminal.)	
5.		Adjust VR ₈₀₃ (left channel) so that ammeter indicates 28 to 32mA.	
6.		Turn off Power/Speakers Switch and replace F_{002} .	
7.	Set to 100mA range.	Turn Power/Speakers Switch to SPKR OFF, then connect ammeter where F_{008} was. (Connect (22) on circuit schematic to minus terminal of ammeter, other end to plus terminal.)	
8.		Adjust VR_{804} (right channel) so that ammeter indicates 28 to $32mA$.	
9.		Turn off Power/Speakers Switch and replace F_{008} .	



PRINTED CIRCUIT BOARDS AND PARTS LIST

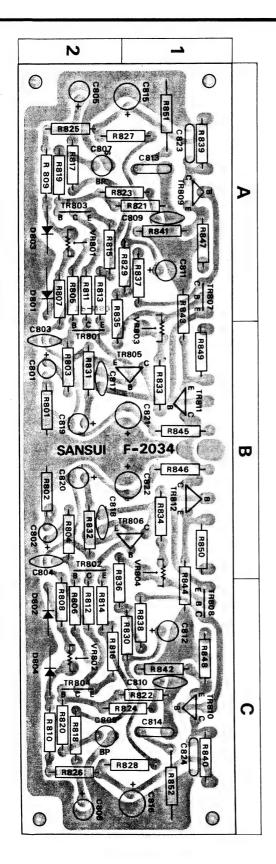
W: Parts No. X: Parts Name Y: Stock No. Z: Position of Parts

DRIVER BLOCK <F-2034-A>

Stock No. 7570680

Stock No. 757068				
w	X		Υ	Z
R801	150kΩ)		0101154	2 B
R802	150kΩ		0101154	2 B
R803	10kΩ		0101103	2 B
R804	10kΩ		0101103	2 B
R805	47kΩ		0101473	2 A
R806	47kΩ		0101473	2 C
R807	18kΩ		0101183	2A, B
R808	18kΩ		0101183	2B, C
R809	18kΩ		0101183	2 A
R810	18kΩ		0101183	2 C
R811	3.3kΩ		0101332	2 A
R812	3.3kΩ		0101332	2 C
R813	39Ω		0101390	2 A
R814	39Ω		0101390	2 C
R815	39Ω		0101390	2 A
R816	39Ω		0101390	2 C
R817	18kΩ		0101183	2 A
R818	18kΩ		0101183	2 C
R819	1.8kΩ		0101182	2 A
R820	1.8kΩ		0101182	2 C
R821	39kΩ		0101393	1, 2 A
R822	39kΩ		0101393	1, 2C
R823	220kΩ	1/14/ 60	0101224	1, 2 A
R824	$220k\Omega$ $\pm 10\%$	1/₄W CR.	0101224	1, 2 C
R825	3.3kΩ		0101332	2 A
R826	3.3kΩ		0101332	2 C
R827	10kΩ		0101103	1, 2 A
R828	10kΩ		0101103	1, 2C
R829	4.7kΩ	1	0101472	1, 2 A
R830	4.7kΩ		0101472	1, 2C
R831	180Ω		0101181	2 B
R832	180Ω		0101181	2 B
R833	820Ω		0101821	1 B
R834	820Ω		0101821	1 B
R835	3.3kΩ		0101332	2A, B
R836	3.3kΩ		0101332	2B, C
R837	39Ω		0101390	1 A
R838	39Ω		0101390	1 C
R839	180Ω		0101181	1 A
R840	180Ω		0101181	1 C
R841	220Ω		0101221	1 A
R842	220Ω		0101221	1 C
R843 '	220Ω		0101221	1 A , B
R844	220Ω		0101221	1B, C
R845	1.5kΩ		0101152	1 B
R846	$1.5k\Omega^{J}$		0101152	1 B
R851	10Ω ± 10%	1W CR.	0104100	1 A .
R852	10Ω \ \tau \\ \tau \ \tau \\ \tau \ \tau \\ \tau \	177 CK.	0104100	1 C
R847	10Ω)		0101100	1 A
R848	10Ω $\pm 10\%$	½W CR.	0101100	1C
R849	10Ω (± 10%	/4 ** CR.	0101100	1 B
R850	10Ω)		0101100	1 B
				1
VR ₈₀₁ VR ₈₀₂	$ \frac{4.7k\Omega(B)}{4.7k\Omega(B)} $ AC Balar	nce Adj. (Left) (Right)	1035110	2 A 2 C

W	x			Y	Z
VR803	$1k\Omega(B)$	A 11	(Left)	1035070	1 A , B
VR804	$1k\Omega(B)$ DC Bia	s Aaj.	(Right)	1035070	1 B , C
C801	1 μΕ)	50V	EC.	0519101	2 B
C802	1 <i>μ</i> F∫	301	LC.	0519101	2 B
C803	100pF) ±10%	6 50V	CC.	0660101	2 B
C804	100pF) - 107	5 501	· · · ·	0660101	2 B
C805	47 μF)	. 50V	EC.	0515470	2 A
C806	47 μF J	,001		0515470	2C
C807	47 μF)	10V	PBEC.	053147 0	2 A
C808	47 μF J		1000	0531470	2C
C809	$10pF$ $\pm 10\%$	6 50V	CC.	0660100	1 A
C810	10pF) - 10/1	3 001	· · · ·	0660100	1 C
C811	47 μF)	50V	EC.	0515470	1 A
C812	47 μF)	001		0515470	1 C
C813	$0.047 \mu F$ $\pm 10\%$	6 50V	MC.	0601477	1 A
C814	$0.047 \mu \text{F}$	301	MC.	0601477	1 C
C815	100 <i>μ</i> F)	50V	EC.	0515101	1, 2 A
C816	100 <i>μ</i> F∫	301	LC.	0515101	1, 2C
C817	22pF) ± 20%	6 50V	cc.	0660220	2 B
C818	22pF) - 207	3 30 1	CC.	0660220	2 B
C819	220μF)	6.3V	EC.	0510221	2 B
C820	220μF)	0.5 ¥	LC.	0510221	2 B
C821	100 <i>μ</i> F)	50V	EC.	0515101	1, 2 B
C822	100μF)	301	LC.	0515101	1,2B
TR801	1			0300450	2 B
TR802	2SA493 (GR)			0300450	2 B
TR803	23A493 (GK)			0300450	2 A
TR804	J			0300450	2 C
TR805	0001104(0.0)			0305901, 2	1,2B
TR806	2SC1124 (2, 3)			0305901, 2	1,2B
TR807	000001 (0.0)			0305121, 2	1 A
TR808	2SC281 (B, C)			0305121, 2	1 C
TR809	1 25 CO 50 (1 14)			0305741, 2	1 A
TR810	2SC959 (L, M)			0305741, 2	1 C
TR811) 054/0/(1.44)			0300211, 2	1 B
TR812	2SA606 (L, M)			0300211, 2	1 B
D801	h			0311040	2 A
D802	161666			0311040	2C
D803	151555			0311040	2 A
D804				0311040	2 C
	Printed Circuit Bo	ard F-1	2034	2570460	



____Abbreviations

CR: Carbon Resistor
SR: Solid Resistor
CeR: Cement Resistor
CC: Ceramic Capacitor
EC: Electrolytic Capacitor
MC: Mylar Capacitor

MPC: Metallized Polyester Capacitor

SC: Polystyrene Capacitor

BPEC: Bi-polar Electrolytic Capacitor

TC: Tantalum Capacitor

OC : Oil Capacitor

MP : Metallized Paper Film Capacitor

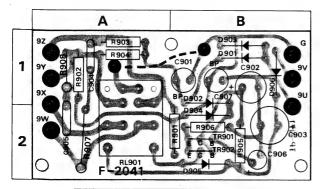
PRINTED CIRCUIT BOARDS AND PARTS LIST

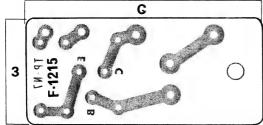
W: Parts No. X: Parts Name Y: Stock No. Z: Position of Parts

PROTECTOR BLOCK

⟨F-2041⟩ stock No. 7591230 ⟨F-1215A⟩ stock No. 7591230

	(1 1210/1/ 8	TOCK NO. 7	331230
W	X	Υ	Z
R901 R902 R903 R904 R905 R906 R907 R908 R909 R910 C901 C902 C903 C904 C905 C906	$ \begin{array}{c} 2.2 \text{k}\Omega \\ 2.2 \text{k}\Omega \\ 47 \text{k}\Omega \\ 47 \text{k}\Omega \\ 68 \text{k}\Omega \\ 10\Omega \\ \end{array} \right) \pm 10\% \frac{1}{4} \text{W} \text{CR.} \\ \begin{array}{c} 68 \text{k}\Omega \\ 10\Omega \\ \end{array} \right) \\ \begin{array}{c} 10\Omega \\ 10\Omega \\ \end{array} \right\} \pm 10\% \frac{1}{2} \text{W} \text{SR.} \\ \begin{array}{c} 22 \text{k}\Omega \\ 47 \text{k}\Omega \\ \end{array} \right\} \pm 5\% \frac{1}{4} \text{W} \text{CR.} \\ \begin{array}{c} 47 \mu \text{F} & 10 \text{V} \text{BPEC.} \\ 220 \mu \text{F} & 6.3 \text{V} \text{EC.} \\ 100 \mu \text{F} & 50 \text{V} \text{EC.} \\ 0.1 \mu \\ 0.1 \mu \\ \end{array} \right] \pm 10\% 50 \text{V} \text{MC.} \\ \begin{array}{c} 1 \mu \\ 1 \mu \\ \end{array} \right. 50 \text{V} \text{EC.} \\ \begin{array}{c} 1 \mu \\ 50 \text{V} \text{BPEC.} \\ \end{array}$	0101222 0101222 0101473 0101473 0101683 0101100 0111100 0107223 0107473 0531470 0510221 0515101 0601108 0601108 0515109 0535109	B A A A B B B A A 3 C C B B B B A A B B B
C908 C909 TR901 TR902 TR903	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0514222 0657473 0305891,2,3 0305891,2,3 0305890,1,2	3 C 3 C B B 3 C
D901 D902 D903 D904 D905 D906	 IN34A (K) 10D-1	0310402 0310402 0310402 0310402 0310341 0310341	B B B B
RL901	Relay Printed Circuit Board F-2041 F-1215	1150101 2591230 2590230	Α



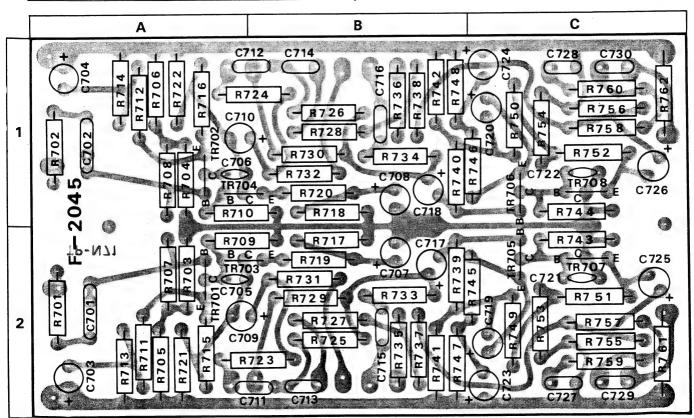


TONE CONTROL BLOCK <F-2045>

	Stock No. 7560				
W		X		Y	Z
R701	lkΩ			0101102	2 A
R702	lkΩ			0101102	1 A
R703	470kΩ			0101474	2 A
R704	470kΩ			0101474	1 A
R705	270kΩ			0101274	2 A
R706	270kΩ			0101274	1 A
R707	390kΩ			0101274	2 A
R708	390kΩ			0101374	1 A
R709	18kΩ			0101183	2 A , B
R710	18kΩ			0101183	1 A , B
R711	lkΩ			0101102	2 A
R711	lkΩ			0101102	1 A
R712	12kΩ			0101102	2 A
R713	12kΩ			0101123	1 A
R715	12kΩ			0101123	2 A
R716	12kΩ			0101123	1 A
R717	820Ω			0101123	2 B
R717	820Ω			0101821	1 B
R718	220Ω			0101821	2 B
R719	220Ω			0101221	1 B
R720	6.8kΩ	·		0101221	2 A
R721	6.8kΩ			0101682	1 A
	l .			0101002	2A, B
R723 R724	12kΩ			0101123	1A, B
R724 R725	12kΩ 3.3kΩ			0101123	2 B
R725	3.3kΩ			0101332	1 B
R727	12kΩ			0101332	2 B
R727	12kΩ			0101123	1 B
R728	12kΩ	±10% 1/4W	CR.	0101123	2 B
R729	12kΩ			0101123	1 B
R730	1kΩ			0101102	2 B
R732	1kΩ			0101102	1 B
R732	470Ω			0101471	2 B
R733	470Ω			0101471	1 B
R735	470Ω			0101471	2 B
R736	470Ω			0101471	1 B
R737	22Ω			0101220	2 B
R738	22Ω			0101220	1 B
R739	68kΩ			0101683	2 B
R740	68kΩ			0101683	1 B
R741	390kΩ			0101394	2 B
R742	390kΩ			0101394	1 B
R742	56kΩ			0101563	2C
R743	56kΩ			0101563	1 C
R744	560Ω			0101561	2B, C
R746	560Ω			0101561	1 B , C
R747	5.6kΩ			0101562	2 B
R748	5.6kΩ			0101562	1 B
R749	150kΩ			0101154	2 C
R750	150kΩ			0101154	1 C
R750	6.8kΩ			0101682	2C
R752	6.8kΩ			0101682	1 C
R752	820Ω			0101821	2C
R753	820Ω			0101821	1 C
R754	56kΩ			0101563	2 C
R756	56kΩ,	J		0101563	1 C
	1				1

W	X			Y	Z
R757	3.3kΩ)			0101332	2 C
R758	3.3kΩ			0101332	1 C
R759	820kΩ 1.00/	1/14/	CR.	0101824	2C
R760	$820k\Omega$ $\pm 10\%$	¼W	CK.	0101824	1 C
R761	100kΩ			0101104	2C
R762	100kΩ)			0101104	1 C
C701	0.22μF) + 59/	50V	MC.	0600228	2 A
C702	$0.22\mu F$ ± 5%	50 V	MC.	0600228	1 A
C703	47 μF)	1./\/		0512470	2 A
C704	47 μF \$	167	EC.	0512470	1 A
C705	15pF)	501/	66	0660150	2 A
C706	15pF ±10%	50V	CC.	0660150	1 A
C707	33μF)			0512470	2 B
C708	33μF}	167	EC.	0512470	1 B
C709	4.7 μF)	501/		0519106	2A, B
C710	4.7 μF }	50V	EC.	0519106	1A, B
C711	0.01 µF)			0600107	2A, B
C712	0.01 μF			0600107	1A, B
C713	0.0145	50) (0600107	2 B
C714	$0.01 \mu F$ $\pm 5\%$	50V	MC.	0600107	1 B
C715	0.0047 μF			0600476	2 B
C716	0.0047 μF			0600476	1 B
C717	1μF	50V	EC.	0519101	2 B

w	x	Y	Z
C718	1μF 50V EC.	0519101	1 B
C719	10.//F)	0512100	2 C
C720	10μF 16V EC.	0512100	1C
C721	47pF) 1108/ 50V 66	0660470	2 C
C722	$\frac{47 \text{ pf}}{47 \text{ pF}}$ ± 10% 50V CC.	0660470	1 C
C723	10μF)	0512100	2C
C724	10μF) 16V EC.	0512100	1 C
C725	1μF) 50V EC.	0519101	2C
C726	1μF) 50V EC.	0519101	1 C
C727	0.02μF)	0600207	2C
C728	$0.02\mu F$ ± 5% 50V MC.	0600207	1 C
C729	0.022μF (± 3% 30V MC.	0600227	2C
C730	0.022 <i>μ</i> F J	0600227	1 C
TR701	054402 (CD)	0300450	2 A
TR702	2SA493 (GR)	0300450	1 A
TR703	0001000 (00)	0305880	2 A
TR704	2SC1000 (GR)	0305880	1 A , B
TR705	1	0300450	2C
TR706	05 4 403 (GP)	0300450	1 C
TR707	2SA493 (GR)	0300450	2 C
TR708	J	0300450	1 C
	Printed Circuit Board F-2045	2560550	



PRINTED CIRCUIT BOARDS AND PARTS LIST

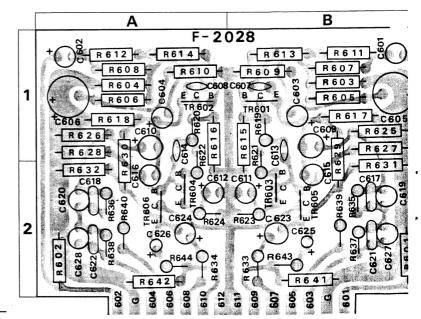
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EQUALIZER BLOCK <F-2028-A>

Stock No. 7550420

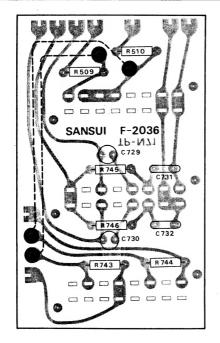
	Stock No.						
w		х			Y	Z	
R601	100kΩ)				0101104	2 B	
R602	100kΩ				0101104	2 A	
R603	47kΩ				0101473	1 B	
R604	$47k\Omega$				0101473	1 A	
R605	120kΩ				0101124	1 B	
R606	120kΩ				0101124	1 A	
R607	100kΩ				0101104	1 B	
R608	100kΩ				0101104	1 A	
R619	100kΩ				0101104	1 B	
R610	100kΩ				0101104	1 A	
R 611	2.2 k Ω				0101222	1 B	
R612	2.2k Ω				0101222	1 A	
R613	220Ω				0101221	1 B	
R614	220Ω				0101221	1 A.	
R615	22kΩ				0101223	1, 2 B	
R616	22k Ω				0101223	1 A	
R617	100kΩ				0101104	1 B	
R618	100k Ω				0101104	1 A .	
R619	560Ω				0101561	1 B	
R620	560Ω				0101561	1 A	
R621	560Ω	±10%	1/4W	CR.	0101561	1, 2 B	
R622	560Ω				0101561	1, 2 A	
R623	1.2kΩ				0101122 0101122	2 B	
R624	1.2kΩ 820Ω				0101122	2 A	
R625 R626	820Ω 820Ω				0101821	1 B	
R627	68kΩ				0101621	1 B	
R628	68kΩ				0101683	1 A	
R629	820kΩ				0101824	1, 2 B	
R630	820kΩ				0101824	1, 2 A	
R631	6.8kΩ				0101682	2 B	
R632	6.8kΩ				0101682	2 A	
R633	560Ω				0101561	2 B	
R634	560Ω				0101561	2 A	
R635	27kΩ				0101273	2 B	
R636	27kΩ				0101273	2 A	
R637	560kΩ				0101564	2 B	
R638	560kΩ				0101564	2 A	
R641	68kΩ				0101683	2 B	
R642	68kΩ				0101683	2 A	
R643	1.5kΩ				0101152	2 B	
R644	1.5kΩ)				0101152	2 A	
C601	3.3μF)		0.514		0573339	1 B	
C602	3.3μF		25V	TC.	0573339	1 A	
C603	10μF)		25V	50	0513100	1 B	
C604	10 <i>μ</i> F		254	EC.	0513100	1 A	
C605	33 <i>μ</i> F)		50V	EC.	0515330	1 B	
C606	33 <i>μ</i> F∫		301	LC.	0515330	1 A	
C607	150pF)	±10%	50V	CC.	0660151	1 B	
C608	150pF∫	_ ,0/0	551	CC.	0660151	1 A	
C609	47 μF)		16V	EC.	0512470	1 B	
C610	47 μF)			,	0512470	1 A	
C611	33μ F		10V	EC.	0511330	2 B	
C612	33μF)	1 100/			0511330	2 A	
C613	33pF	±10%	50V	CC.	0660330	1 B	

W	X	Y	Z
C614	33pF ±10% 50V CC.	0660330	1 A
C615	390pF)	0610391	2 B
C616	390pF	0610391	2 A
C617	1500pF ± 5% 50V SC.	0610152	2 B
C618	1500pF (± 5% 50V SC.)	0610152	2 A
C619	220pF	0610221	2 B
C620	220pF)	0610221	2 A
C621	$0.008 \mu F$ ± 5% 50V MC.	0600806	2 B
C622	0.008μF) ± 5% 50V MC.	0600806	2 A
C623	10μF) 50V EC.	0515100	2 B
C624	10μF 50V EC.	0515100	2 A
C625	1μF) 50V EC.	0519101	2 B
C626	$1\mu F$ 50V EC.	0519101	2 A
TR601	25 4 400 (00)	0300450	1 B
TR602	2SA493 (GR)	0300450	1 A
TR603	25 (1000 (CP)	0300450	1 B
TR604	2SC1000 (GR)	0305880	2 A
TR605	2SA493 (GR)	0300450	2 B
TR606	23A473 (GK)	0300450	2 A
	Printed Circuit Board F-2028	2550330	



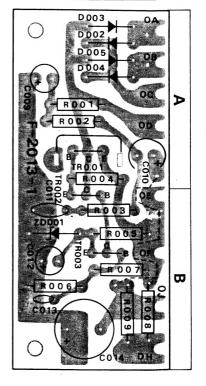
ACCESSORY BLOCK <F-2036>

w	x	Y
R 509 R 510 R 511	$ \begin{array}{c} 10k\Omega \\ 10k\Omega \\ 22k\Omega \end{array} $	0101103 0101103 0101223
R512 R513 R514	$\left \begin{array}{c} 22k\Omega\\ 22k\Omega\\ 680k\Omega\\ 680k\Omega \end{array}\right $ $\pm 10\%$ $\frac{1}{4}$ W CR.	0101223 0101684 0101684
C503 C504 C505 C506	$ \begin{vmatrix} 390pF \\ 390pF \end{vmatrix} \pm 5\% & 50V & SC. \\ 0.02\mu F \\ 0.02\mu F \end{vmatrix} \pm 10\% & 50V & MC. $	0610391 0610391 0601207 0601207
S4 S5 S6	MODE SWITCH MUTING SWITCH LOUDNESS SWITCH	1170170 1170270 1170270
	Printed Circuit Boad F-2036	259



POWER SUPPLY BLOCK $\langle F-2013-1A \rangle$ Stock No. 7500690

w	X	Υ	Z
R001	2010)	0101000	
R002	2.2kΩ	0101222	A
R002	18kΩ	0101183	A
R003	18kΩ	0101183	В
R004	$1k\Omega$ $\pm 10\%$ $\frac{1}{4}$ W CR.	0101102	A
R005	2.7kΩ	0101272	В
	33kΩ	0101333	В
R007	78kΩ)	0101683	В
R008	150Ω ± 10% ½W CR.	0103151	A
R009	560Ω) = 1070 /211 CK.	0103561	В
C009	4.7 μF 63V EC.	0516479	Α
C010	10μF 50V EC.	0515100	A
C011	$0.047 \mu \text{F} {}^{+80}_{-20}\%$ 50V CC.	0557473	В
C012	10μF 50V EC.	0515100	В
C013	$0.01 \mu F + \frac{80}{20}\%$ 50V CC.	0557103	В
C014	470μF 50V EC.	0515471	В
TRooi	2SB507 (C, D, E, F)	0303230,1,2,3	Α
TR002)	0300421,2	В
TR003	2SA678 Orange (6, 7)	0300421,2	В
ZD	ZB-1-14	0315071	В
D002	1	0310340	Α
D003	10D-1	0310340	Α
D004	100-1	0310340	Α
D005	J.	0310340	Α
	Printed Circuit Board F-2013-1	2500570	



OTHER PARTS AND THEIR POSITION ON CHASSIS

W: Parts No. X: Parts Name Y: Stock No.

OTHER PARTS

W	x	Y
R 505	100kΩ \	0101104
R506	100kΩ	0101104
R 507	180kΩ	0101184
R 508	180kΩ	0101184
R511	100kΩ	0101104
R512	10040	0101104
R513	$ 100k\Omega ^{2}$ ±10% $\frac{1}{4}$ W CR.	0101104
R514	100kΩ	0101104
R 51 5	100kΩ	0101104
R516	100kΩ	0101104
R517	100kΩ	0101104
R518	100kΩ)	0101104
R853	0.47Ω)	0155478
R854	0.47.0	0155478
R855	0.47Ω $\pm 10\%$ 5W CeR.	0155478
R856	0.47 \(\Omega \)	0155478
R857	4.7Ω)	0154479
R858	4.7 Ω	0104479
R859	390Ω	0104391
R860	$\frac{37012}{390\Omega}$ $\pm 10\%$ 1W CR.	0104391
R008	4.7kΩ	0104472
R009	4.7kΩ)	0104472
VR 701	$\left.\right\}$ 250k Ω (M, N) BALANCE	1010580
VR702)	
VR703 VR704	$\left. \begin{array}{ccc} 250 \text{k} \Omega \end{array} \right. \left(\text{B} \right) \times 2 \qquad \qquad \text{VOLUME}$	1010580
VR705	$ \begin{cases} 100k\Omega (W) \times 2 & \text{BASS} \end{cases} $	1010840
VR706 VR707)	
VR708	$\}$ 100k Ω (Special B) $ imes$ 2 TREBLE	1010860
C501 .	0.047 µF) +10% 50V 66	0660473
C502	$0.047 \mu F$ $\pm 10\%$ 50V CC.	0660473
C823	0.1 µF) + 10.9% 400V OC	0590108
C824	$0.1\mu\text{F}$ $\pm 10\%$ 400V OC.	0590108
C001	0.022 µF)	0605227
C002	$0.0047 \mu F$ $\pm 20\%$ 250V MPC.	0605476
C004	6800 μF)	0559321
C005	6800μF) 50V EC.	0559321
C008	2200 μF 63V EC.	0559505
C014	1000μF 50V EC.	0559302
TR813	2SD188 (L, M)	0308301, 2
TR814		0308301, 2
TR815	2SA627 (L, M)	0300231, 2
TR816	Power Transistor Socket	2030020
D001	5B2	0310660
L801		4290221
L802	Stabilized Coil for High Frequency Range	4390221
Sı	SELECTOR	1103490
S ₂	TAPE MONITOR	1170300
S ₃	4-CH ADAPTOR	1170300
S7	HIGH FILTER	1170270

W	x	Υ
S8	LOW FILTER	1170270
S9	POWER/SPEAKERS	1101420
J801	Headphone Jack	2430220
J601	DIN Socket	2430040
T 001	Power Transformer	4001171
CO001	AC Outlet (UNSWITCHED)	2450040
CO002	AC ONLY (SYMITCHED)	2450040
CO003	AC Outlet (SWITCHED)	2450040
F001	Power Fuse (3A)	043126
	Power Fuse Holder	230006
F002	+ Power Supply, Left Ch.)	043326
F003	+ Power Supply, Left Ch. Quick Acting	043326
F004	- Power Supply, Right Ch. Fuse (3A)	043326
F005	- Power Supply, Right Ch. J	0433262
F 01	1A)	0432830
F02	1A Wired-in Fuse	0432830
F03	3A J	0432870
	Printed Circuit Board For Wired-in Fuse (F-1456)	2598120
PL001	Power Indicator (6.3V 250mA)	040009
	Power Indicator Socket	2320080
PU001	Voltage Selector Plug	2410090
	Socket	2410080

